

## The Credit System of the Hatvany József Doctoral School of Information Sciences

### 1. Introduction

The PhD program builds up from a training and research part (1-4 semester) and, a research and dissertation part (5-8 semester), which mean totally a 4-year program for the doctoral students

### 2. Obtainable credits in the 1-4 semester

During the training and research period in the first four semesters the PhD student participates in theoretical and practical training related to the selected research topic, collects information in order to establish the topic of the dissertation and performs literature review. Hereby, the doctoral student can create the basic conditions for his original research with new scientific results, and makes substantive research work with the research infrastructure. The PhD student presents his results in the reporting system of the Doctoral School and in the publicly available publication possibilities. Therefore in this training and research part the obtainable credits can be connected to these activities. In the following subchapters the details of this system are described according to the main scope of the activities.

#### 2.1. Exams

Minimum 8 subjects have to be taken. (It depends on the previous trainings and the selected topic. The Council of the Doctoral School may require further subjects if the supervisor, the head of the topic group or the topic field propose.)

In general, the obligatory subjects are:

Discrete Mathematics I  
Theory of Algorithms  
Mathematical Logic with Applications  
Programming Paradigm

#### Elective subjects

Minimum number of selected elective subjects: 4

Regarding the elective subjects, the student should take minimum

- one course related to the main research direction and
- one course related to the research specialization

The maximum number of courses (including both obligatory and elective subjects) is 12.

#### 2.2. Participation in Education

It is recommended in the first four semesters with (0- 5) credits/semester. The maximum number of education credits is. 20 credits. The departments cannot require more than 4 contact lessons per week. If the PhD student would be involved in more teaching activity the supervisor should discuss it with the head of the topic group and topic field, and the permission of the Council of the Doctoral School is necessary. This educational activity should be based on contract.

### 2.3. Involvement in departmental/institutional research projects

The attendance of the PhD students is obligatory during the regular Research Seminars organized by the Doctoral School. The doctoral students can obtain (0-15) credits/semester in the first four semesters if they participate in departmental/institutional research work and present the results in the Seminars. The maximum limit is 25 credits in the research phase (last four semesters).

3.1. The required minimum credits are 240 for the pre-degree certificate (absolutorium) stating that all course-units and publication, reporting requirements have been completed. From the 240 credits the publication credits have to reach at least 15% of the total credits (minimum 36 credits), furthermore the PhD students have to fulfil the other existing requirements including their successful performance in the research seminars. 4.2. The pre-degree certificate (absolutorium) is needed for the launch of the doctoral candidate process. 4.3. The fulfilment of the minimum publication requirements is also needed for the submission of the PhD thesis.

### 3.2 Minimum credit requirements for pre-degree certificate:

- Subjects: 40-60 credits
- Publications: min. 50 credits
- Participation in departmental research projects: min. 20 credits
- Teaching activities: max. 20 credits.
- Conference presentation: min. 20 credits

### 3.3 Minimum publication requirements for degree certificate:

- a) The sum of reduced authorship in peer-reviewed foreign language journal publications should be 2. (The supervisor is not counted in the coauthors) (reduced authorship is calculated as  $1 / C$ , where C is the number of not-supervisor authors).
- b) Minimum one peer-reviewed foreign language journal publications in Q3 level or better journal.

3.4 The publications of the PhD students must be registered in the MTMT system.

### 3.3 Credit table

Category	Credits	Note	Maximum number of credits to be earned
Compulsory subjects	5 credits/subject	minimum 4, maximum 6 subjects	30
Elective subjects	5 credits/subject	minimum 4, maximum 6 subjects	30
Departmental research work	min 0 - max 15/semester	in training and research phase	60
Departmental research work	min 0 - max 25/semester	in dissertation and research phase	100
Teaching activities	5 / semester	only in training and research phase	20
Publication	80	Q1-level journal	
	60	Q2-level journal	
	50	Q3-level journal	
	30	international journal	
	20	other scientific journals	
	15	international conference paper	
	10	national conference paper	
	5	local conference	
	10-15	book chapter	